

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
26 May 2005 (26.05.2005)

PCT

(10) International Publication Number  
**WO 2005/046642 A1**

(51) International Patent Classification<sup>7</sup>: **A61K 9/127**, (74) Agent: **FRANK B. DEHN & CO.**; 179 Queen Victoria Street, London EC4V 4EL (GB).  
38/00, 38/11, 38/23, 38/31

(21) International Application Number:  
PCT/GB2004/004696

(22) International Filing Date:  
5 November 2004 (05.11.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0326075.9 7 November 2003 (07.11.2003) GB  
0326074.2 7 November 2003 (07.11.2003) GB  
0412544.9 4 June 2004 (04.06.2004) GB

(71) Applicant (for all designated States except US): **CAMURUS AB** [SE/SE]; Ideon, Gamma 1, Sölvegatan 41, S-223 70 Lund (SE).

(71) Applicant (for GB only): **GODDARD, Christopher** [GB/GB]; Frank B. Dehn & Co., 179 Queen Victoria Street, London EC4V 4EL (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **JOABSSON, Fredrik** [SE/SE]; Camurus AB, Ideon, Gamma 1, Sölvegatan 41, S-223 70 Lund (SE). **TIBERG, Fredrik** [SE/SE]; Camurus AB, Ideon, Gamma 1, Sölvegatan 41, S-223 70 Lund (SE).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: COMPOSITIONS OF LIPIDS AND CATIONIC PEPTIDES

(57) Abstract: The present invention relates to compositions containing at least one cationic peptide active agent, at least one neutral structure forming amphiphile, at least one anionic structure forming amphiphile and optionally at least one solvent wherein the composition is in the form of a non-lamellar phase structure and/or forms a nonlamellar phase structure on exposure to body fluids. The invention also relates to methods for protecting peptides from enzymic degradation *in vivo* and to compositions in which the peptide active agent is so protected.



WO 2005/046642 A1